

**MULTI-LAYER METHOD OF ACCOMMODATING CODE COLLISIONS FROM MULTIPLE SURFACE ACOUSTIC WAVE IDENTIFICATION TAGS**

**ABSTRACT OF THE DISCLOSURE**

A method of accommodating code collisions from multiple SAW identification tag coded response pulses. In one embodiment, the method includes: (1) separating probable candidates by time-domain; (2) classifying the probable candidates by code-division separation; (3) employing known coded identification signals to adjust the probable candidates; and (4) correlating the multiple SAW identification tag coded response pulses to identify the probable candidates for further processing.